Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-05-25** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	-
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-05-25** **Date: 19-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2

Note:
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-05-25** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	188	188	1.3	98.7	90-100
3	20 mm	7285	7473	49.8	50.2	30-70
4	10 mm	4090	11563	77.1	22.9	10-35
5	4.75 mm	3001	14564	97.1	2.9	0-5
6	Pan	436	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-05-25** **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3053	3252	65.0	35.0	25-55
4	4.75 mm	1499	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	–

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-05-25 **Date: 29/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	149.74 X 149.05 X 150.14	22319	8.741	573.4	25.7	25.4
2	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	150.63 X 149.06 X 150.16	22454	8.494	590.8	26.3	
3	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	151.49 X 151.23 X 150.65	22910	8.911	552.4	24.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-05-25** **Date: 29/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	149.75 X 150.57 X 150.48	22548	8.741	581.3	25.8	25.5
2	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	150.13 X 149.71 X 149.29	22476	8.494	598.4	26.6	
3	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	150.42 X 151.55 X 151.65	22795	8.911	551.1	24.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-05-25** **Date: 29/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	149.04 X 151.02 X 150.53	22507	8.741	563.6	25.0	25.2
2	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	150.23 X 149.34 X 151.92	22435	8.494	596.1	26.6	
3	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	151.62 X 150.39 X 149.01	22802	8.911	547.4	24.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-05-25** **Date: 25/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	151.28 X 150.09 X 151.58	22705	8.048	429.7	18.9	18.9
2	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	150.07 X 151.30 X 150.18	22705	8.947	430.0	18.9	
3	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	151.02 X 151.51 X 151.56	22882	8.068	434.2	19.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-05-25 **Date: 29/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	149.75 X 150.57 X 150.48	22548	8.741	581.3	25.8	25.5
2	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	150.13 X 149.71 X 149.29	22476	8.494	598.4	26.6	
3	Cement Concrete Pavement	M30	22/07/2019	29/07/2019	150.42 X 151.55 X 151.65	22795	8.911	551.1	24.2	

Note:

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-05-25** **Date: 17-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	16-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-08-05-25** **Date: 27-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-19
Sample Type /Size	:	Precast Cover Slab(100 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	23/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-05-25 **Date: 25/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	151.71 X 150.41 X 150.55	22818	8.048	425.7	18.7	18.4
2	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	151.18 X 150.42 X 151.12	22740	8.947	415.7	18.3	
3	Drain Bottom Slab Concrete	M20	18/07/2019	25/07/2019	149.84 X 149.39 X 150.04	22384	8.068	408.6	18.3	

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-08-05-25 **Date: 13-07-19**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-07-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-05-25** **Date: 16/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	151.33 X 149.24 X 149.93	22585	8.511	535.5	23.7	23.1
2	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	151.37 X 150.68 X 149.80	22809	8.930	507.8	22.3	
3	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	151.53 X 149.80 X 151.88	22699	8.671	526.5	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/08/2019

Lab ID	:	CP-2019-08-05-25
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	149.49 X 150.82 X 150.27	22545	8.511	523.5	23.2	23.0
2	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	149.39 X 149.59 X 151.83	22347	8.930	502.1	22.5	
3	Drain Bottom Slab Concrete	M20	18/07/2019	16/08/2019	151.49 X 150.01 X 150.80	22725	8.671	530.0	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/08/2019

Lab ID	:	CP-2019-08-05-25
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.
Agency	:	Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/63/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	149.18 X 151.20 X 150.15	22555	8.511	537.6	23.8	23.3
2	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	149.62 X 149.26 X 150.47	22333	8.930	497.8	22.3	
3	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	152.00 X 151.09 X 149.08	22965	8.671	546.8	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-08-05-25** **Date: 17/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	150.29 X 151.18 X 150.34	22721	8.511	524.8	23.1	23.2
2	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	151.57 X 150.43 X 150.00	22801	8.930	522.5	22.9	
3	Drain Side Wall Concrete	M20	20/07/2019	17/08/2019	150.10 X 150.55 X 149.64	22598	8.671	535.1	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-05-25 Date: 19/08/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	149.44 X 151.97 X 150.01	22710	8.820	750.0	33.0	32.9
2	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	151.69 X 150.92 X 151.90	22893	8.118	736.3	32.2	
3	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	151.37 X 150.90 X 149.45	22842	8.267	764.6	33.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-05-25

Date: 19/08/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	150.37 X 150.85 X 151.20	22684	8.820	765.7	33.8	33.2
2	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	150.09 X 149.85 X 151.26	22491	8.118	737.4	32.8	
3	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	149.74 X 150.91 X 151.95	22598	8.267	750.0	33.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-05-25 Date: 19/08/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Construction of CC Roads and Drains at Allalsandra in Ward No.04, Yelahanka Division.

Agency : Sri.D.V.Kumar, No:657, 5th Main, L.G. Ramanna Layout, Laggere, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/63/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	149.45 X 149.64 X 150.94	22363	8.820	746.3	33.4	33.1
2	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	149.02 X 150.20 X 151.50	22383	8.118	719.7	32.2	
3	Cement Concrete Pavement	M30	22/07/2019	19/08/2019	149.32 X 150.23 X 149.39	22432	8.267	756.8	33.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro BANGALORE Sig..... Date.....

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****End of Report****